



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 29, 2018

Ms. Patricia McFadden  
Registration Manager  
Advan, LLC  
2525 Meridian Parkway  
Suite 350  
Durham, N.C. 27713

Subject: Label Amendment –Revisions and Label Updates  
Product Name: **Tee-Off 4.5F**  
EPA Registration Number: 83070-1  
Application Date: December 11, 2017  
Decision Number: 536536

Dear Ms. McFadden:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

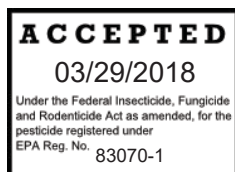
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with FIFRA section 6. If you have any questions, please contact Eleanor Thornton by phone at 703-305-6799, or via email at [Thornton.eleanor@epa.gov](mailto:Thornton.eleanor@epa.gov).

A handwritten signature in black ink, appearing to read "Shaja B. Joyner". The signature is fluid and cursive, with the first name "Shaja" being more prominent.

Shaja B. Joyner, Product Manager 20  
Fungicide-Herbicide Branch  
Registration Division 7505P

Enclosure



## TEE-OFF™ 4.5F

### ACTIVE INGREDIENTS:

Thiophanate-methyl (dimethyl [(1,2-phenylene)-bis (iminocarbonothioyl)] bis [carbamate])\* 46.2%

### OTHER INGREDIENTS:

53.8%

### TOTAL:

100.0%

\*Also known as dimethyl 4,4'-o-phenylenebis (3-thioallophanate)

Contains 4.5 lbs. thiophanate-methyl per gallon.

### KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF SWALLOWED:	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
IF INHALED:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Emergency Phone Numbers	(800) 222-1222 Poison Control Center (human health) (800) 424-9300 CHEMTREC (transportation and spills)

EPA Reg. No. 83070-1  
Net Contents: \_\_\_\_\_ gallons  
[Lot number / Label Date Code]

EPA Est. No. \_\_\_\_\_  
[Lot no. begins with xx]

**MANUFACTURED FOR:**  
Advan, LLC  
2525 Meridian Parkway, Suite 350  
Durham, NC 27713

## OPTIONAL LANGUAGE FOR LABEL

[Pull open here]

[Pull back [book] [label] here]

[See additional Precautionary Statements and Directions For Use inside booklet.]

[Application Type T/O Turf & Ornamental]

[Formulated in the United States of America, with U.S. and imported ingredients.]

[Read the [entire] label carefully before opening the container]

[Fungicide]

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Causes moderate eye irritation. Harmful if absorbed through skin. Harmful if swallowed or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Handlers mixing, loading and applying the product as a dip must wear:

- Coveralls over long sleeved shirt and long pants,
- Chemical-resistant gloves,
- Chemical resistant footwear plus socks, and
- A chemical resistant apron.

All other mixers and loaders and applicators must wear:

- Long-sleeved shirt and long pants, Shoes plus socks,
- Chemical-resistant gloves for all mixers and loaders and for applicators using hand held equipment, and
- Chemical-resistant apron for mixers, loaders and other handlers exposed to the concentrate.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

### ENGINEERING CONTROLS

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not contaminate water by disposing of equipment washwaters.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**DO NOT** apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

Do not enter or allow worker entry into treated areas during the restricted entry level (REI) of 12 hours. Exemption: If the product is applied by drenching, the Worker Protection Standard; under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long sleeved shirt and long pants,
- Chemical-resistant gloves made of any waterproof material,
- Chemical-resistant footwear plus socks,
- Chemical-resistant headgear for over head exposures.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. DO NOT enter or allow others to enter treated areas without protective clothing until sprays have dried.

## PRODUCT INFORMATION

Shake well before using. Apply this product with ground equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of this product to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Continuous agitation is required to keep the material in suspension. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels

involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

#### RESTRICTIONS:

- **NOT FOR HOMEOWNER USE.** For use only by certified applicators or those under their immediate supervision.
- **DO NOT** apply with fixed wing or rotary aircraft.
- **NOT** for use on turf being grown for sale or other commercial use as sod.
- **DO NOT** apply to home orchards/backyard fruit trees after fruit set.
- **DO NOT** tank mix with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied.
- **DO NOT** apply through any irrigation system unless the Chemigation instructions are followed. Chemigation instructions follow Directions for Use.

**IMPORTANT:** If, after using this product as directed, treatment is not effective, a tolerant strain of fungi may be present (consult your local Advan LLC representative).

Consult your State Agricultural Experiment Station or your State Agricultural Extension Service for advice on the prompt use of some other suitable fungicide.

## TURF

For use on all fine turf applications such as industrial lawns, athletic fields, residential and public areas (home lawns, parks, athletic fields, schools and daycare centers cemeteries, golf course greens, tees, and fairways of Bentgrasses, Bluegrasses, Bermudagrasses, Fescues, Ryegrasses, St. Augustine grasses or their mixtures. This product is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. This product is to be used for the prevention and control of the below mentioned diseases (provides both curative and protective action). Apply specified amounts in sufficient water to obtain thorough coverage, usually three to five gallons spray solution per 1,000 square feet of turf area. When treating golf greens, always treat aprons and approaches. Use the highest specified rate under conditions of severe disease pressure.

#### RESTRICTIONS:

**DO NOT** apply with fixed-wing or rotary aircraft.  
**DO NOT** graze animals on treated turf. Do not feed clippings to livestock or poultry.

FUSARIUM BLIGHT (*Fusarium roseum*), SUMMER PATCH (*Magnaporthe poae*), NECROTIC RING SPOT (*Leptosporia korrae*)- Apply this product at 5 fluid ounces per 1,000 square feet. Water into the root zone by irrigating with one inch of water immediately after application. Make two applications at 14 day intervals, beginning applications when the disease first appears.

GRAY LEAF SPOT (*Pyricularia grisea*)-Apply this product at 3 1/2 to 5 fluid oz/1,000 sq. ft. beginning when conditions are favorable for disease development. Continue at 14 day intervals. Spray should dry on leaves with no "watering in".

DOLLAR SPOT (*Sclerotinia homoeocarpa*), ANTHRACNOSE BASAL AND FOLIAR (*Colletotrichum graminicola*) - Apply this product at 2 - 3 1/2 fluid ounces per 1,000 square feet beginning when the disease first appears. Spray should dry on leaf surfaces with no watering in. Continue at 14 day intervals through the season or as needed.

LARGE BROWN PATCH (*Rhizoctonia solani*), ZOYSIA PATCH (*Rhizoctonia solani*), COPPER SPOT (*Gloeocercospora sorghi*), RED THREAD (*Laetisaria fuciformis*) - Apply this product at 2 - 3 1/2 fluid

ounces per 1,000 square feet beginning when the disease first appears and continue at 14 day intervals through the season or as needed. Spray should dry on leaf surfaces with no "watering in".

STRIPE SMUT (*Ustilago striiformis*) - Apply this product at 5 fluid ounces per 1,000 square feet. Water into the root zone by irrigating with one inch of water immediately after application. Make two applications at 14 to 21 day intervals. Begin applications when the disease first appears, either in the spring or fall.

Observe the maximum individual application rates and maximum seasonal application limits in the Maximum Application Rates table.

#### TEE-OFF™ 4.5F MAXIMUM APPLICATION RATES

Site	Maximum Individual Application Rate	Minimum Retreatment Interval	Maximum Seasonal Total	
			Product	Active Ingredient
Residential/ Public areas	77.5 fl. oz./acre OR 1.8 fl. oz./1000 square feet	14 Days	310 fl. oz./acre OR 7.12 fl. oz./1000 square feet	10.88 lbs. AI/acre
Golf Course Greens/Tees/ Aprons	233 fl. oz./acre OR 5.35 fl. oz./1000 square feet	14 Days	620 fl. oz./acre OR 14.23 fl. oz./1000 square feet	21.8 lbs. AI/acre
Golf Course Fairways Outside of Florida	155 fl. oz./acre OR 3.56 fl. oz./1000 square feet	14 Days	155 fl. oz./acre OR 3.56 fl. oz./1000 square feet	5.45 lbs. AI/acre
Florida Golf Course Fairways Only During Overseeding	77.5 fl. oz./acre OR 1.8 fl. oz./1000 square feet	14 Days	77.5 fl. oz./acre OR 1.8 fl. oz./1000 square feet	2.72 lbs. AI/acre

#### ORNAMENTALS (FIELD AND GREENHOUSE)

This product is a broad-spectrum systemic fungicide, which controls a variety of diseases on woody and herbaceous ornamental crops. This product is also effective as a preplant dip on cutting and bulbs. This product may be used to control the listed diseases on fruit and nut trees, namely almond, apple, apricot, cherry, nectarine, peach, pecan, plum, and prune trees.

#### RESTRICTIONS:

**DO NOT** use fruit or nuts from trees treated with this product for food or feed.



## FOLIAR SPRAY PLANT TYPES AND DISEASES CONTROLLED

### DISEASE(S)

### PLANT TYPES

Anthrachnose	woody ornamentals, shade trees <sup>1</sup>
Ascochyta Blight	herbaceous ornamentals
Black Spot	roses
Botrytis (Grey Mold)	woody and herbaceous
Brown Rot	woody and herbaceous
Cercospora Leaf Spot	woody and herbaceous
Colletotrichum	woody and herbaceous
Corynespora Leaf Spot	ligustrum
Didymellina Leaf Spot	Iris
Diplodia Tip Blight ( <i>Diplodia pinea</i> )	shade and ornamental trees
Ovulinia	azalea, rhododendron <sup>2</sup>
Entomosporium Leaf Spot	woody and herbaceous ornamentals
Fusicladium Leaf Scab	woody and herbaceous ornamentals
Phomopsis Blight	woody and herbaceous ornamentals
Pine Tip Blights	woody ornamentals
Powdery Mildew	woody and herbaceous ornamentals, ornamental nut and fruit trees
Ramularia Leaf Spot	herbaceous ornamentals
Scab	pyracantha, flowering crab, ornamental fruit and nut trees
Septoria Leaf Spots	woody and herbaceous ornamentals
Venturia Leaf Scab	woody and herbaceous ornamentals

### KEY TO NOTES:

<sup>1</sup> Begin at bud and make 2 or 3 additional applications at 10 to 14 day intervals.

<sup>2</sup> Begin treatment as flowers open. Addition of a surfactant to the spray mixture improves distribution of the spray on hard-to-wet plants such as roses.

## FOLIAR SPRAY – HYDRAULIC APPLICATION

**Mixing instructions:** Add required amount of this product to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Maintain continuous agitation to keep the material in suspension and apply with properly calibrated spray equipment. Apply until leaves glisten, but not to point of runoff.

**Application Rates and Timing for Diseases:** Begin applications when disease first appears and repeat at 10 to 14 day intervals, during the growing season. Shorten the interval during humid, rainy weather.

**Ground Application:** Use 20 Fluid ounces of this product per 100 gallon of water. For control of Powdery Mildew and Botrytis (Gray Mold), use 10 fluid ounces of this product per 100 gallons of water, or 1 teaspoonful per 2 gallons of water.

### FOLIAR DISEASES

Disease(s) Controlled	Concentration of TEE-OFF™ 4.5F (fl. oz./100 gallons)	Application Instrtuctions
Anthrachnose <i>Colletotrichum</i> .	10.75 – 20	Apply as buds break or at first sign of disease. Repeat application at 7-14 day intervals as needed during disease period.
Black Spot of Roses	10.75 – 20	Apply early summer or at first



<i>Diplocarpon rosae</i>		sign of disease. Repeat application every 7-14 days as needed during disease period.
Brown Rot and Blight <i>Monilinia</i> , <i>Sclerotini</i> , <i>Whetzellinia</i>	10.75 – 20	Apply late spring or at first sign of disease. Repeat application every 7-14 days as needed during the disease period.
Fusicladium and Venturia Leaf Scabs on: Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.	10.75 – 20	Apply as buds break. Repeat application every 7-14 days during disease period. Effective control requires coverage during expansion. Rotations with chlorothalonil or propiconazole can be utilized.
Leaf Spots and Blights Caused by: <i>Ascochyta</i> , <i>Blumeriella</i> , <i>Botrytis</i> , <i>Cercospora</i> , <i>Coccomyces</i> , <i>Corynespora</i> , <i>Curvularia</i> , <i>Didymellina</i> , <i>Entomosporium</i> , <i>Fabraea</i> , <i>Fusarium Ramularia</i> , <i>Rhizoctonia</i> , <i>Marssoninia</i> , <i>Mycosphaerella</i> , <i>Myrothecium</i> , <i>Phoma</i> , <i>Physalasporea</i> , <i>Schizothyrium</i> , <i>Septoria</i> , <i>Sphaceloma</i>	10 – 14.5	Make applications when disease symptoms first appear. Repeat every 7-14 days during disease period. Rotations with chlorothalonil may be used.
Ovulinia Blight	7.25 – 20	Apply as flowers open. Repeat every 7-14 days during disease period.
Powdery Mildews <i>Erysiphe</i> , <i>Microsphaera</i> , <i>Phyllactinia</i> , <i>Podosphaera</i> , <i>Oidium</i> , <i>Sphaerotheca</i>	10 – 20	Apply when disease first appears and repeat application every 7-14 days. Alternate with a fungicide with a different mode of action.
Rust Diseases caused by: <i>Puccinia</i> , <i>Gymnosporangium</i> , <i>Uromyces</i>	10.75 – 20	Apply late spring or when symptoms first appear. Repeat application every 7-14 days during disease period. Alternate with a fungicide with a different mode of action.
Tip Blight of Pine <i>Sphaeropsis sapinea</i> , <i>Diplodia pinea</i>	14.5 – 20	Begin applications in the spring when new growth starts. Make a second application just prior to needle emergence from the sheath and a third application 7 days later. Ensure thorough coverage.
Twig Blights, Cankers and Diebacks <i>Diaporthe</i> , <i>Kabatina</i> , <i>Phoma</i> , <i>Phomopsis</i>	14.5 – 20	Apply when symptoms first appear. Repeat application every 7-14 days during disease period.

## DRENCH PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
Botrytis	herbaceous annuals, perennials and bedding plants
Fusarium	herbaceous annuals, perennials and bedding plants
Sclerotinia	stem, herbaceous annuals, perennials and crown & roots bedding plants
Cylindrocladium	rot woody ornamentals (such as azaleas, rhododendrons, conifers, poinsettias)
Thielaviopsis	rot woody ornamentals (such as azaleas, rhododendrons, conifers, poinsettias)

**NOTE:** This product does not control *Pythium* spp. or *Phytophthora* spp.

**Mixing instructions:** Add required amount of this product to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Maintain continuous agitation to keep the material in suspension.

**Application Rates and Timing for Disease Control:** Use 10-20 fluid ounces of this product per 100 gallons of water. Apply as a drench or heavy spray to 800 sq. ft. of bench area (1 to 2 pints per square foot) after transplanting into propagation beds or containers. Repeat at 2 to 4 week intervals during periods favorable for disease

Container Type	Volume to Apply per Container	
	1 pint per square foot rate	2 pints per square foot rate
4 inch	2 fl. oz.	
5 inch	2 1/2 fl. oz.	
6 inch		6 1/2 fl. oz.
7 inch		8 1/2 fl. oz.
8 inch		11 fl. oz.
9 inch		14 fl. oz.
10 inch		17 1/2 fl. oz.

## PREPLANT DIP TREATMENT PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
Botrytis	herbaceous annuals, perennials and bedding plants
Fusarium	herbaceous annuals, perennials and bedding plants
Sclerotinia	stem, herbaceous annuals, perennials and crown & roots bedding plants
Cylindrocladium	rot woody ornamentals (such as azaleas, rhododendrons, conifers, poinsettias)
Thielaviopsis	rot woody ornamentals (such as azaleas, rhododendrons, conifers, poinsettias)
Fusarium and Penicillium rots	bulbs (Easter Lily, Tulip, Gladiolus, Daffodil, Iris)

### Application Rates and Timing for Disease Control:

**Plants or Cuttings** - Use 20 fluid ounces of this product per 100 gallons of water, immerse plants or cuttings for 10 to 15 minutes; remove and allow to drain. Wear protective clothing as described under the 'Personal Protective Equipment' section of this label. **Bulbs** - Use 33 fluid ounces of this product per 100 gallons of water, or 2 teaspoonfuls of this product per gallon of water. Soak cleaned bulbs for 15 to 30 minutes in warm dip (80° to 85°F) preferably within 48 hours after digging dry bulbs after treatment. If bulbs are for forcing, treat bulbs that have been heat-cured.

**NOTICE TO USER:** Plant tolerance to this product has been found to be acceptable on all ornamentals that it has been tested on. Due to the large number of species and varieties of ornamental and nursery plants, it is impossible to test every one for tolerance to this product. Neither the manufacturer nor the seller has determined whether or not this product can be used on ornamental plants not specified on this label. The professional user should determine if this product can be used safely prior to commercial use. In a small area test the specified rates on a small number of plants for phytotoxicity prior to widespread use. Before using this product in tank mixture with other products, test the mixture on a small number of plants for phytotoxicity prior to widespread use.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## **CHEMIGATION INSTRUCTIONS**

### **For Ornamental Use Only**

Apply this product only through pressurized drench (flood), sprinkler, or drip (trickle) irrigation systems. If you have questions about calibration, contact your State Extension Service specialists, equipment manufacturers, or other experts.

### **PRECAUTIONS:**

Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water.

### **RESTRICTIONS:**

- **DO NOT** apply this product through any other type of irrigation systems other than those specified above.
- **DO NOT** connect chemigation system to a public water system.
- **DO NOT** connect any irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. Should the need arise, a person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments.

### **Pressurized Drench (Flood) System**

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

- Systems must use a metering pump, such as a positive displacement injection pump, (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops.

#### **Sprinkler Chemigation**

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump, (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

#### **RESTRICTION:**

- **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

#### **Drip (Trickle) Chemigation**

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump, (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

## SPRAY PREPARATION

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

Prepare a suspension of this product in a mix tank. Fill the tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of this product and then the remaining volume of water.

## APPLICATION INSTRUCTIONS

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of this product into the irrigation water line so as to deliver the desired rate per acre. The suspension of this product should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

## RESTRICTION:

**DO NOT** irrigate the treated area for 24 to 48 hours after completion of treatment to prevent washing the chemical off the crop.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container in a secure, dry, temperature-controlled area.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Containers <5 Gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill or by incineration.

Minibulk Containers: [greater than 5 gal.] Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip back and forth several times. Empty the rinsate into application equipment or mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing

nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Bulk Containers: [greater than 5 gal.] Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. When the container is empty, replace the cap and seal all openings that have been opened during use, and return to the point of purchase, or to a designated location named at the time of purchase of this product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged or leaking, call CHEMTREC. If the container is damaged and leaking or material has been spilled, follow these procedures:

- Cover spill with absorbent material.
- Sweep into disposal container.
- Wash area with detergent and water and follow with clean water rinse.
- Do not allow to contaminate water supplies.
- Dispose of according to instructions.

If not returned to the point of purchase or to a designated location, clean empty container as instructed above and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

## WARRANTY AND LIMITATION OF DAMAGES

**CONDITIONS OF SALE:** To the extent consistent with applicable law, Advan LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Advan LLC. ADVAN LLC DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ADVAN LLC SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND ADVAN LLC'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. BUYER AND USER ACKNOWLEDGE AND ASSUME ALL RISKS AND LIABILITY RESULTING FROM HANDLING, STORAGE AND USE OF THIS PRODUCT. ADVAN LLC NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.



WARNING: This product can expose you to chemicals including chlorothalonil, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).